

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

REC'D 03 MAY 2005

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To:

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) 15 APRIL 2005 (15.04.2005)

Applicant's or agent's file reference
FE251547

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/KR2005/000134

International filing date (day/month/year)

14 JANUARY 2005 (14.01.2005)

Priority date(day/month/year)

15 JANUARY 2004 (15.01.2004)

International Patent Classification (IPC) or both national classification and IPC

IPC7 H04L 12/28

Applicant

UTStarcom Korea Limited. et al.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



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WRITTEN OPINION OF THE
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Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-2	YES
	Claims		NO
Inventive step (IS)	Claims	1-2	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-2	YES
	Claims		NO

2. Citations and explanations :

Reference is made to the following documents:

D1 = US06012108 A(1999.11.16)

D2 = KR20010082944 A(2001.08.31)

D3 = JP11317746 A(1999.11.16)

NOVELTY

None of D1 through D3 teach the elements of two ASPA, each of which comprises a disk-on-chip for storing configuration and operation; a memory for storing an executable format of an object associated with the configuration and operation; a dualized processor for transceiving the configuration and operation from or to ASPA board; a operation and maintenance processor for storing the configuration and operation in disk-on-chip and generating an object executable on the memory, described in the claims 1-2

Therefore, the invention according to claims 1-2 is considered to be novel.

INVENTIVE STEP

The claims 1-2 relate to an apparatus and method for dualizing an Asynchronous Transfer Mode(ATM) router in a CDMA2000 system.

D1 discloses a device for dualizing main processors in an asynchronous transfer mode switch and method therefor.

D2 reveals an ATM cell router for an IMT2000 asynchronous BTS to improve the performance of a system by removing a load of system by a format conversion between a packet data and an ATM cell and processing a communication path in an asynchronous BTS using an ATM type.

D3 relates to a method and device for monitoring quality of dual ATM switchboards.

To be continued at the Supplemental Box

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

The above inventions are partly similar to each other in that they teach in common a device for dualizing main processors in an ATM switch.

But, the invention is different from any one among D1 through D3 in that they don't include two ASPA, each of which comprises a disk-on-chip for storing configuration and operation; a memory for storing an executable format of an object associated with the configuration and operation; a dualized processor for transceiving the configuration and operation from or to ASPA board; a operation and maintenance processor for storing the configuration and operation in disk-on-chip and generating an object executable on the memory.

Therefore, the claims 1-2 are considered to involve an inventive step.

INDUSTRIAL APPLICABILITY

The subject matter of claims 1-2 fulfills the requirements of Article 33(4) PCT because it is useful.